

Amendments to the Claims

Please amend the claims without prejudice, such that this listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (CURRENTLY AMENDED) In ~~an electronic switch~~ a pressure monitoring system of the type employing a pressure sensitive bridge array for ~~monitoring a pressure to activate~~ activating an indicator by activating a switch when the monitored pressure exceeds a predetermined value indicative of a dangerous condition, in combination therewith, ~~[[of]]~~ a shunt calibration apparatus for enabling a user to test said switch and indicator prior to the application of said monitored pressure, said shunt calibration apparatus comprising: an impedance having one terminal connected to an output terminal of said bridge, and switching means coupled to ~~said other~~ another terminal of said impedance to ~~enable said impedance to selectively shunt said bridge to force said bridge to provide an output indicative of said dangerous condition when said switching means is operated in a first state and to effectively isolate said impedance from said bridge when said switching means is operated in a second state.~~

2. (CURRENTLY AMENDED) The ~~electronic switch~~ pressure monitoring system according to claim 1 wherein said pressure ~~resistive~~ sensitive bridge is a Wheatstone bridge.

3. (CURRENTLY AMENDED) The ~~electronic switch~~ pressure monitoring system according to claim 1 wherein said Wheatstone Bridge includes at least one

piezoresistor.

4. (CURRENTLY AMENDED) The ~~electronic switch~~ pressure monitoring system according to claim 1 wherein said impedance ~~[[is]]~~ comprises a resistor.

5. (CURRENTLY AMENDED) The ~~electronic switch~~ pressure monitoring system according to claim 1 wherein said indicator is a lamp.

6. (CURRENTLY AMENDED) An electronic switch apparatus, comprising ~~[[;]]~~ :
a bridge circuit responsive to applied pressure to provide at an output a voltage proportional to applied pressures,

a control circuit coupled to said bridge for receiving said output voltage and for providing an indication when said voltage exceeds a predetermined value indicative of an improper pressure,

switching means responsive to said provided indication to operate an indicator capable of notifying a user of said improper pressures,

an impedance having a first terminal coupled to an output of said bridge and a second terminal, and

a selectively operated switch having one terminal coupled to said second terminal of said impedance with said other terminal coupled to a ~~point of~~ reference potential, said switch ~~when selectively operated~~ being operative in a first position ~~causing to cause~~ said impedance to shunt said bridge to cause said bridge to provide a voltage indicative of said improper pressure during the absence of ~~[[any]]~~ an applied pressure to said bridge and operative ~~on a second resistor~~ in a second position to

isolate said ~~resistor~~ impedance from said bridge whereby a user can determine whether said ~~[[switch]]~~ switching means and indicator will be operative upon application of ~~[[an]]~~ the applied pressure.

7. (ORIGINAL) The electronic switch apparatus according to 6 wherein said bridge is a piezoresistive bridge.

8. (CURRENTLY AMENDED) The electronic switch apparatus according to claim 6 wherein said impedance ~~[[is]]~~ comprises a resistor ~~selected in of a~~ magnitude to ~~shunt~~ cause said bridge to ~~enable said bridge to~~ provide a voltage indicative of said improper pressure.

9. (CURRENTLY AMENDED) The electronic switch apparatus according to claim 6 wherein said switching means includes a transistor having a control electrode coupled to said control circuit and responsive to said provided indication to turn on said transistor having first and second output electrode with one output electrode coupled to a ~~pair of~~ reference potential.

10. (CURRENTLY AMENDED) The electronic switch apparatus according to claim 9 wherein said indicator is a lamp ~~housing~~ having one terminal coupled to said other output ~~terminal~~ electrode of said transistor and said other lamp terminal coupled to a source of operating potential.

11. (ORIGINAL) The electronic switch apparatus according to claim 10 wherein said

transistor is a MOSFET or a bipolar transistor.

12. (ORIGINAL) The electronic switch apparatus according to claim 7 wherein said bridge is a piezoresistive Wheatstone bridge.

13. (NEW) A monitoring system comprising:

a resistive bridge for providing an output indicative of a sensed condition;
an indicator being electrically coupled to said bridge and for providing an indication when the sensed condition satisfies a threshold condition; and,
a switch for selectively shunting an electrical impedance into said bridge;
wherein, said impedance is of a magnitude to cause said bridge output to be indicative of the sensed condition satisfying the threshold condition, regardless of said sensed condition, when shunted into said bridge by said switch.

14. (NEW) The system of Claim 13, wherein said resistive bridge comprises a pressure sensitive piezoresistive Wheatsone bridge.

15. (NEW) The system of Claim 14, wherein said threshold condition corresponds to a threshold pressure value.

16. (NEW) An electronic switch apparatus, comprising:

a resistive network for providing a voltage indicative of a pressure applied thereto;

a circuit coupled to said resistive network for receiving said voltage indicative of

the applied pressure and providing an indication when the received voltage exceeds a predetermined value indicative of an alarm condition, and,

a switch for selectively shunting an impedance into said resistive network to bias said voltage indicative of the applied pressure to cause said control circuit to provide said indication regardless of whether said applied pressure exceeds said predetermined value.